



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
UNDERGROUND INJECTION CONTROL PERMIT: CLASS II

Permit Number: MI-117-2D-0023

Facility Name: WB Osborn SWD #1-22

Pursuant to the provisions of the Safe Drinking Water Act, as amended 42 U.S.C. §§ 300f et seq., (commonly known as the SDWA) and implementing regulations promulgated by the U.S. Environmental Protection Agency at Parts 124, 144, 146, and 147 of Title 40 of the Code of Federal Regulations (40 C.F.R.),

WB Osborn Oil & Gas Operations of San Antonio, Texas


is hereby authorized to drill and operate an injection well located in Michigan, Montcalm County, T11N, R5W, Section 22, SE 1/4 Section, for injection into the Dundee Limestone at depths between 3262 and 3505 feet, upon the express condition that the permittee meet the restrictions set forth herein. Injection shall not commence until the operator has received authorization in accordance with Part I(E)(10) of this permit.

The injection shall be limited to produced brinenoncommercial brine disposal from production wells owned or operated by WB Osborn Oil & Gas Operations.

All references to Title 40 of the Code of Federal Regulations are to all regulations that are in effect on the date that this permit is effective. All terms used in this permit shall have the meaning set forth in the SDWA and implementing regulations at 40 C.F.R. Parts 124, 144, 146, and 147.

This permit shall become effective on OCT 25 2019 and shall remain in full force and effect during the operating life of the well, unless this permit is otherwise revoked and reissued, terminated or modified pursuant to 40 C.F.R. §§144.39, 144.40, and 144.41. This permit shall also remain in effect upon delegation of primary enforcement responsibility to the State of Michigan, unless that State chooses to adopt this permit as a State permit. The permit will expire in one year if the permittee fails to commence construction, unless a written request for an extension of this one-year period has been approved by the Director. The permittee may request an expiration date sooner than the one-year period, provided no construction on the well has commenced. This permit will be reviewed at least every five years from the effective date specified above.

Signed and dated: October 25, 2019


Thomas R. Short, Jr.
Acting Director, Water Division



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OCT 25 2019

REPLY TO THE ATTENTION OF

WP-16J

CERTIFIED MAIL 7016 3560 0000 4829 5282
RETURN RECEIPT REQUESTED

C. Curtis Crumrine III, Vice President
WB Osborn Oil & Gas Operations
1250 NE Loop 410
Suite 600
San Antonio, Texas 78209

**RE: Final Permit for the WB Osborn SWD #1-22 Well in Montcalm County; U.S.
Environmental Protection Agency Permit Number MI-117-2D-0023**

Dear Mr. Crumrine:

Enclosed is the signed final permit referenced above. No comments were received on the draft permit; therefore, no party has rights to appeal this permit. In accordance with permit conditions, construction of the injection well is authorized to commence. Please send the written notification that you have read and are familiar with conditions of the enclosed final EPA permit as required by your permit within 30 days of the receipt of this letter.

After construction of the well has been completed, you must submit EPA Form 7520-18, Completion Report for Injection Wells, to the Permit Writer by certified mail with return receipt requested, as well as a copy of the results of the mechanical integrity test witnessed by our field inspectors, cementing records or tickets, and any other tests or logs required by the permit. Many useful forms can be found on our web site, <http://www.epa.gov/r5water/uic/forms/index.htm>. A copy of the state completion report will also assist us in our review. We will review all information provided and notify you in writing whether the well is in compliance and injection is authorized.

If you have any questions, please contact William Tong of my staff at (312) 886-9380 or by email to tong.william@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Linda Holt", is written over the typed name of Thomas R. Short, Jr.

Thomas R. Short, Jr.
Acting Director, Water Division

Enclosure

cc: Mark Snow, EGLE